

KAYCEE is an ISO 9001:2000 and UL certified manufacturing & marketing organisation offering a wide range of Electromechanical switches & Low Voltage Switchgears. KAYCEE is an integral part of the CMS group, a well-known name in India for providing System Integration and Networking, Outsourcing and Traffic System Services.

KAYCEE is the pioneer in the Indian switchgear industry & one of the most reputed brands of electrical and electronic components. KAYCEE has a wide spectrum of products which include Rotary switches, Rotary Cam switches, Micro & Toggle switches, Limit switches, Push Button switches & Indicating lamps, Weather tight switches, Breaker Control switches, Time Totalizers, Water meters, Counters & Fuse fittings, which conform to various international & national standards.

KAYCEE has a strong Design & Development Centre, dedicated towards development of new products & continuous improvement in existing products. A full-fledged Quality Control System laid down at KAYCEE assures the best quality product to its customers. Timely deliveries & prompt customer service, are a tradition at KAYCEE.

For more than six decades, KAYCEE has been serving to a wide gamut of industries from Electrical, Electronics, Telecommunication, Machine & Machine Tool, Automobile, Appliances & various other fields, through its network of Sales & Service centers, distributors, stockists & dealers spread across the country. KAYCEE is also exporting its products to the Middle East, South East Asia, Australia & European markets.

KAYCEE is committed to its customers, as a reliable partner in their ventures, for exhibiting a global performance.



ISO 9001-2000



KAYCEE INDUSTRIES LIMITED

32, Ramjibhai Kamani Road, Ballard Estate, Mumbai - 400 001.
Tel.: +91 (22) 2261 3521 / 22 / 23. Fax : +91 (22) 2261 6106.
Email : kayceeindtd@vsnl.com, Website : www.kayceeindustries.com

Branch Offices :

- BANGALORE :** C/o CMS Computers Ltd. M/s. Kaycee Industries Ltd.
2nd Floor, Laxmi Complex, 54, St. Marks Rd., Bangalore - 560 001.
Tel.: +91 (80) 2558 6451 / 6790. Fax : +91 (80) 2555 0336.
Mobile : 9342853324
- CHENNAI :** C/o CMS Computers Ltd. M/s. Kaycee Industries Ltd.
42, Cathedral Road, Chennai - 600 086. Tel.: +91 (44) 2811 4118.
Fax : +91 (44) 2811 4159. Mobile : 9381201556
- HYDERABAD :** C/o CMS Computers Ltd. M/s. Kaycee Industries Ltd.
6-3-569/1, 2nd Floor, Surana House, Opp. RTA Office, Somajiguda,
Hyderabad - 500 082. Tel.: 5573 9900 (5 lines). Fax : 5573 9900.
Mobile : 9392489349
- KOLKATA :** C/o CMS Computers Ltd. M/s. Kaycee Industries Ltd.
10/D/2, Ho-Chi-Minh Sarani, 1st Floor, Kemwell Manor, Kolkata - 700 071.
Tel.: +91 (33) 2280 6112 / 13 / 14, 2247608 / 22408949.
Fax : +91 (33) 2240 9145. Mobile : 9339723155 / 9339200968
- NEW DELHI :** C/o CMS Computers Ltd. M/s. Kaycee Industries Ltd.
D-38, 3rd Floor, Dena Bank Building, South Ext. Part -1, Delhi - 110 006.
Tel.: +91 (11) 2464 7055, 51647300 / 1 / 2 / 3. Fax : +91 (11) 2464 2053.
Mobile : 9312004687 / 9350828127

Reputed Customers : ■ ABB ■ Crompton Greaves ■ L&T ■ Siemens ■ C&S
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KAYCEE
Brand that set the standards



LIMIT SWITCHES

*Kaycee for Commitment...
Kaycee for Quality...*

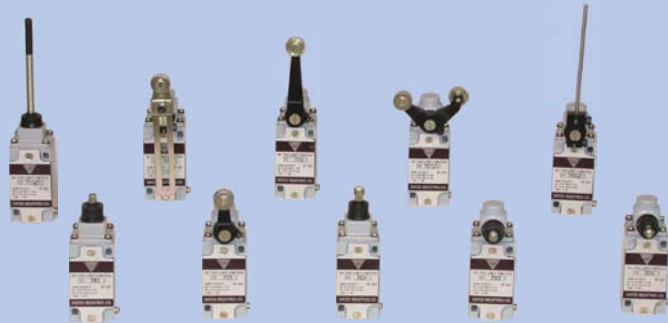




Limit Switches Compact Type



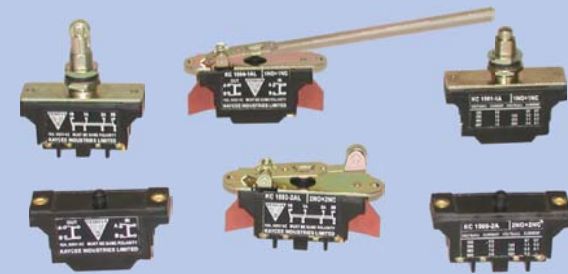
Limit Switches 600 Series



Limit Switches 700 Series



Limit Switches 900 Series



Limit Switches 1500 Series



Limit Switches KLS 595 Series

KLS 95 SERIES LIMIT SWITCHES

Type	Action	Travel (mm)	Contact Arrangement	Starting Speed Starting Angle	
KLS 95WR-OA Actuator with Roller	Normal Action	21-22 13-14			
KLS 95WR-OB Actuator with Roller	Snap Action	For 13-14 21-22		Vmm/sec 0.5 1 2 5 α 30° 20° 10° 5° β 30° 20° 10° 5°	
		Back 21-22 13-14			
KLS 95DK -OA Actuator with Roller Lever	Normal Action	21-22 13-14			
KLS 95DK-OB Actuator with Roller Lever	Snap Action	For 13-14 21-22		Vmm/sec 0.5 1 2 5 α 30° 20° 10° 5° β 30° 20° 10° 5°	
		Back 13-14 13-14			
KLS 95CL-OA Actuator with Cat Whisker	Normal Action	21-22 13-14			
KLS 95CL-OB Actuator with Cat Whisker	Snap Action	For 13-14 21-22		Vmm/sec 0.5 1 2 5 α 30° 20° 10° 5° β 30° 20° 10° 5°	
		Back 21-22 13-14			

Technical Data

Continuous Current (Ith) : 10A
 Rated Voltage AC : 500V
 DC : 600V
 Ambient Temperature : -40° C to +85° C

KLS 95 Series limit switches have an outstandingly long mechanical life of 15 million operations. The contact life of the unit when used in AC Circuits is as per the table given below:

Breaking Current (Amps)	1	3	6	10
Contact life (millions of switching cycles)	15	5	2.5	1

The contact life of snap-action type limit switches is about 70% of the value given above.

Degree of protection : IP 50
 Frequency of operation : 3500 cycles / Hour
 Enclosure : Polyamide
 Terminal capacity : 4 Screws of M3, 5 for 2.5mm² are captive with Self-Lifting pressure wire clamps.

Making and breaking Capacities :

The limit switches can be used up to 500V AC or 600V DC. The rated making capacity of the contacts of the limit switch is 70A. The rated breaking capacity is as given below :

AC 40-60Hz P.F. 0.3 to 1 Class of use AC11*								DC			
Voltage		Breaking Capacity Amps		Voltage		Breaking Capacity Amps					
						Non-Inductive Load		Inductive Load Class of Use DC/11*			
Volts	Snap Action	Others	Volts	Snap Action	Others	Snap Action	Others	Snap Action	Others		
24	30	60	24	7	10	7	10				
125	30	60	110	1.5	2.2	0.91	1.3				
220	30	60	220	0.62	0.9	0.28	0.4				
380	30	60	440	0.28	0.4	0.14	0.2				
500	30	40	600	0.21	0.3	0.1	0.14				

* As per VDE 0660

LIMIT SWITCHES COMPACT TYPE - 100/200/300/400 SERIES

FEATURES

KC 100 Series limit switches are designed to operate two circuits at a time with a single plunger. The operating head cannot be interchanged as the design is application dedicated. Transparent acrylic top cover allows inspection of the contacts.

KC 200 Series limit switches are compact type having 32mm width and offer complete interchangeability of the Enclosure and Actuator assembly throughout the series. A non-metallic plastic top cover is provided to avoid electric shock under abnormal conditions. These are oil tight and dust proof switches. In 200 Series all models are available in Snap and Normal action mechanisms.

KC 300 Series limit switches are Micro switches with pressure diecast, aluminium housing. The Operating Head cannot be interchanged as the design is application dedicated. This Series limit switches have a special type of 60 mm long leaf roller lever. The operating travel is much less compared to other series switches.

KC 400 Series limit switches are designed for double action in which two plungers are provided, one on each side. The mechanism is maintained type in which NC Contacts will open with one side plunger actuation and will remain in this condition till next actuation force is applied from the opposite side. During the actuation, the NO contact will close and vice versa. Only one specially designed, application dedicated, single pole double throw change over contact model is available in this series.

KC 100 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 101H	Horizontal Roller Actuator	Snap Action 2NO+2NC			
KC 102V	Vertical Roller Actuator	Snap Action 2NO+2NC			
KC 103LS	Long Stem Horizontal Roller Actuator	Snap Action 2NO+2NC			
KC 104B	Bellow Actuator	Snap Action 2NO+2NC			

KC 200 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 201	Ball Actuator	Snap Action	1NO+1NC	0 1 2 3 4 5 5.5 1-2 3-4	
KC 201N	Ball Actuator	Normal Action	1NO+1NC	0 1 2 3 4 5 6 1-2 3-4	
KC 202	Roller Actuator	Snap Action	1NO+1NC	0 1 2 3 4 5 6 1-2 3-4	
KC 202N	Roller Actuator	Normal Action	1NO+1NC	0 1 2 3 4 5 6 1-2 3-4	
KC 203	Roller Lever Actuator	Snap Action	1NO+1NC	0 1 2 3 4 5 5.5 1-2 3-4	
KC 203N	Roller Lever Actuator	Normal Action	1NO+1NC	0 1 2 3 4 5 6 1-2 3-4	
KC 204	Slipping Roller Lever Actuator	Snap Action	1NO+1NC	0 1 2 3 4 5 5.5 1-2 3-4	
KC 204N	Slipping Roller Lever Actuator	Normal Action	1NO+1NC	0 1 2 3 4 5 6 1-2 3-4	
KC 205	Rotating Roller Lever Actuator	Snap Action	1NO+1NC	0° 10° 20° 30° 40° 50° 60° 1-2 3-4	
KC 205N	Rotating Roller Lever Actuator	Normal Action	1NO+1NC	0° 10° 20° 30° 40° 50° 60° 1-2 3-4	
KC 206	Spring Needle Actuator	Snap Action	1NO+1NC	0° 10° 20° 30° 1-2 3-4	
KC 206N	Spring Needle Actuator	Normal Action	1NO+1NC	0° 10° 20° 30° 1-2 3-4	

LIMIT SWITCHES - KLS 95 SERIES

FEATURES

KLS 95 Series Limit Switches are available in Normal and Snap Action types with 1 NO + 1NC Contacts. This series has plastic enclosure with IP 50 protection. KLS 95 Series Limit Switches are available with a variety of operating heads to meet various applications in Machine Tools, Hoists & Cranes, Conveyors, etc.

Type	Action	Travel (mm)	Contact Arrangement	Starting Speed	Starting Angle	Diagram
KLS 95W-OA Actuator Plunger	Normal Action	21-22	1NO+1NC	A	A	
		13-14				
KLS 95W-OB Actuator Plunger	Snap Action	For 13-14	1NO+1NC	A	A	
		21-22				
KLS 95D-OA Actuator with Roller Lever	Normal Action	21-22	1NO+1NC	A	A	
		13-14				
KLS 95D-OB Actuator with Roller Lever	Snap Action	For 13-14	1NO+1NC	A	A	
		21-22				
KLS 95DS-OA Actuator with Adjustable Lever	Normal Action	21-22	1NO+1NC	A	A	
		13-14				
KLS 95DS-OB Actuator with Adjustable Lever	Snap Action	For 13-14	1NO+1NC	A	A	
		21-22				
KLS 95DD-OA Actuator with 200mm Nylon Rod	Normal Action	21-22	1NO+1NC	A	A	
		13-14				
KLS 95DD-OB Actuator with 200mm Nylon Rod	Snap Action	For 13-14	1NO+1NC	A	A	
		21-22				
KLS 95DL-OA Actuator with 270mm Nylon Rod	Normal Action	21-22	1NO+1NC	A	A	
		13-14				
KLS 95DL-OB Actuator with 270mm Nylon Rod	Snap Action	For 13-14	1NO+1NC	A	A	
		21-22				

OPERATIONAL CURRENT & VOLTAGE

AC 15 Rating	Single Pole (1NO+1NC)	Double Pole (2NO+2NC)	DC 13 Rating	Single Throw	Double Throw	Single Throw	Double Throw
120 V	6.0 A	4.5 A	125 V	2.2 A	0.5 A	1.1 A	0.2 A
240 V	3.0 A	2.2 A	250 V	1.1 A	0.3 A	0.5 A	0.1 A
480 V	1.5 A	1.2 A	600 V	0.4 A	0.1 A	0.2 A	--
600 V	1.2 A	0.9 A	--	--	--	--	--

SELECTION CHART

Description	Catalogue Code
1NO+1NC Contact Block	KC 1500-1A
2NO+2NC Contact Block	KC 1500-2A
1NO+1NC Contact Block with Top Push Button Operator	KC 1501-1A
1NO+1NC Contact Block with Top Push Roller Operator in-line with Contact Block	KC 1502-1AH
1NO+1NC Contact Block with Top Push Roller Operator at Right angles to Contact Block	KC 1502-1AV
1NO+1NC Contact Block with Roller Lever Operator (Left Hand Mounting)	KC 1503-1AL
1NO+1NC Contact Block with Roller Lever Operator (Right Hand Mounting)	KC 1503-1AR
1NO+1NC Contact Block with 6 inch Lever Operator (Left Hand Mounting)	KC 1504-1AL
1NO+1NC Contact Block with 6 inch Lever Operator (Right Hand Mounting)	KC 1504-1AR

* For Switches with 2NO+2NC Contact Block replace with **2A** instead of **1A** to the Catalogue Code.

KC 200 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 207/1	Angular Roller Lever Actuator (Right Side)	Snap Action 1NO+1NC		0 1 2 3 4 5 5.5 1-2 3-4	
KC 207/1N	Angular Roller Lever Actuator (Right Side)	Normal Action 1NO+1NC		0 1 2 3 4 5 6 1-2 3-4	
KC 207/2	Angular Roller Lever Actuator (Left Side)	Snap Action 1NO+1NC		0 1 2 3 4 5 5.5 1-2 3-4	
KC 207/2N	Angular Roller Lever Actuator (Left Side)	Normal Action 1NO+1NC		0 1 2 3 4 5 6 1-2 3-4	
KC 208	Long Roller Lever Actuator	Snap Action 1NO+1NC		0 1 2 3 4 5 10 11 12 1-2 3-4	
KC 208N	Long Roller Lever Actuator	Normal Action 1NO+1NC		0 1 2 3 4 5 10 11 1-2 3-4	

KC 300 & 400 SERIES LIMIT SWITCHES

KC 301H	Horizontal Roller Actuator	Snap Action 1NO+1NC		0 1 2 3 4 1-2 1-3	
KC 301V	Vertical Roller Actuator	Snap Action 1NO+1NC		0 1 2 3 4 1-2 1-3	
KC 302P	Plunger Actuator	Snap Action 1NO+1NC		0 1 2 3 4 1-2 1-3	

KC 300 & 400 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 303	Angular Leaf Roller Lever Actuator	Snap Action 1NO+1NC			
KC 401	Double Plunger Actuator	Snap Action 1NO+1NC			

Technical Data As Per Standard IEC 60947 - 5 - 1 of 1997

Technical Data	KC 100 Series Limit Switches	KC 200 Series Limit Switches	KC 300 Series Limit Switches	KC 400 Series Limit Switches
Design	4 Types of Operating	8 Types of Operating Heads	4 Types of Operating Heads	Double Action
Contact Combination	2NO+2NC, Double Pole Double Throw Single Break	1NO+1NC, Single Pole, Double Throw, Double Break	1NO+1NC, Single Pole, Double Throw, Single Break	1NO+1NC, Single Pole, Double Throw, Single Break.
Mechanism	Snap Action	Snap/Normal Action	Snap Action	Snap Action
Current & Voltage Rating	5A, 250V AC	10A, 500V AC	10A, 440V AC	10A, 440V AC
Cable Entry	G3/8 BSP - 2 Nos.	G 3/8 BSP - 3 Nos. or PG 9 - 3 Nos. or M18x1.5 - 3 Nos.	1/2" BSP- 1 No. PG 9 - 1 No.	1/2" BSP - 1 No.
Terminal Capacity	2.5sqmm solid/stranded Conductors	2.5sqmm solid /stranded Conductors	2.5 sq mm solid/stranded Conductors	2.5 sq mm solid/stranded Conductors
Electrical Protection	IP4X for all 100 Series	IP 65 for all 200 Series	IP4X for all 300 Series	IP4X for all 400 Series
Operating Force	900 Grams (max)	a)450-600 Grams(max) B)250-400 Grams(max) for KC 206 & KC 208	a) 900 Grams(max) for KC 301 & KC 302 b) 600 Grams(max) for KC 303	450-600 Grams(max).
Housing	Aluminium Pressure Die Casting	Aluminium Pressure Die Casting	Aluminium Pressure Die Casting	Aluminium Pressure Die Casting
Application	Textile Machines such as Comber, Blow Room Machinery	Textile Machine such as Comber, Draw Frames, Blow Room, Carding Comber & Doffer Machines	Textile Machines such as Comber, Draw Frame, Blow Room & Carding Machines.	Textile Machines such as Speed Frame (LF 1400)

KC 1500 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 1504-1AL	Six Inch Lever Operator Left Hand Mounting	Snap Action 1NO+1NC			
KC 1504-2AL		Snap Action 2NO+2NC			
KC 1504-1AR	Six Inch Lever Operator Right Hand Mounting	Snap Action 1NO+1NC			
KC 1504-2AR		Snap Action 2NO+2NC			

Technical Data As Per IEC 60947 - 5 - 1 of 1997

Technical Data	700 Series Limit Switches
Design	7 Types of Operating Heads
Contact Combination	Single Pole - 1NO+1NC, Double Pole - 2NO+2NC
Mechanism	Snap Action
Electrical Rating	10A, 600V AC
Utilization Category	AC 15 & DC 13
Frequency of Operation	2500 Operations/hours (max)
Terminal Capacity	2.5 sqmm Solid/Stranded Conductors
Electrical Protection	Dust Proof without operator-IP 65 from the top for plunger type & IP 4X from the top for Lever type
Mechanical Life	20 Million operations without operator & 10 Million operations with operator
Operating Force	0.400 Kg (min) & 0.600 Kg (max)
Application	Machine Tools with different attachments, contact blocks for foot switches and contact blocks for micro adjustable limit switches

KC 1500 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 1502-1AH	Top Push Roller Operator Horizontal	Snap Action 1NO+1NC			
KC 1502-2AH	IP 65 from the Top	Snap Action 2NO+2NC			
KC 1502-1AV	Top Push Roller Operator Vertical	Snap Action 1NO+1NC			
KC 1502-2AV	IP 65 from the Top	Snap Action 2NO+2NC			
KC 1503-1AL	Roller Lever Operator Left Hand Mounting	Snap Action 1NO+1NC			
KC 1503-2AL	IP 4X from the Top	Snap Action 2NO+2NC			
KC 1503-1AR	Roller Lever Operator Right Hand Mounting	Snap Action 1NO+1NC			
KC 1503-2AR	IP 4X from the Top	Snap Action 2NO+2NC			

LIMIT SWITCHES - 600 SERIES

FEATURES

KC 600 Series Limit Switches are designed to having 34mm width, with specially designed head which rotates in steps of 90° in four directions and allows actuating rod from any of the 4 directions. The switches are actuated by push rod, normal roller lever, angular roller lever, crank lever etc. The roller is made of high grade wear resistant moulded phenolic material. In addition, Fork type-In Line Rollers, Fork type Offset Rollers, 76mm Long Roller Lever and 32.0 to 82.5mm Adjustable Roller Lever Operating Heads are available with Steel Rollers for flexibility..

KC 600 Series Limit Switches Enclosures are interchangeable in types KC 601, KC 602, KC 603, KC 604, KC 607 and KC 608.

The Operating Heads Rotating Roller Lever, Fork Type-In Line Rollers, Fork Type Offset Rollers, 76mm Long Roller Lever are interchangeable with the enclosure for KC 605.

The Boxes and Actuator Assemblies of KC 606 and KC 609 are not interchangeable with the rest of the KC 600 Series.

KC 600 Series Limit Switches offers a variety of Degree of Protection from IPXX to IP65 and also a range of contact arrangement to provide operational flexibility and economics.

The Application area coverage of 600 Series Limit switches are Injection Moulding Machines, Hoists & Cranes, Machine Tools, Textile Machines and SPMs.

KC 600 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 600	Only Push Rod Operated without Housing IPXX	Snap Action 1NO+1NC			
KC 600N	Only Push Rod Operated without Housing IPXX	Normal Action 1NO+1NC			
KC 600NE		Extended Stroke 1NO+1NC			
KC 600NOL		Over Lapping 1NO+1NC			
KC 601	In Diecast Aluminium Housing, with Push Rod Operated IP - 65	Snap Action 1NO+1NC			
KC 601N		Normal Action 1NO+1NC			
KC 601NE		Extended Stroke 1NO+1NC			
KC 601NOL		Over Lapping 1NO+1NC			

* Add Suffix 'P' for switches with Protective Plastic Cover IP4X

KC 600 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 602	In Diecast Aluminium Housing, with Horizontal Roller Actuator IP 65	Snap Action	1NO+1NC		
KC 602N		Normal Action	1NO+1NC		
KC 602NE		Extended Stroke	1NO+1NC		
KC 602NOL		Over Lapping	1NO+1NC		
KC 603	In Diecast Aluminium Housing, with Normal Roller Lever Actuator IP 65	Snap Action	1NO+1NC		
KC 603N		Normal Action	1NO+1NC		
KC 603NE		Extended Stroke	1NO+1NC		
KC 603NOL		Over Lapping	1NO+1NC		
KC 604	In Diecast Aluminium Housing, with Slipping Roller Lever Actuator IP 65	Snap Action	1NO+1NC		
KC 604N		Normal Action	1NO+1NC		
KC 605	In Diecast Aluminium Housing, with Rotating Roller Lever Actuator IP 65	Snap Action	1NO+1NC		
KC 605N		Normal Action	1NO+1NC		
KC 605NOL		Over Lapping	1NO+1NC		
KC 605F	In Diecast Alum. Housing with Fork Type In Line Roller Lever IP 65	Snap Action	1NO+1NC		
KC 605FO	In Diecast Alum. Housing with Fork Type Offset Roller Lever IP 65	Snap Action	1NO+1NC		

PRECISION LIMIT SWITCHES - 1500 SERIES

KC 1500 Series Precision Limit Switches available in 16 types are compact, reliable, durable and accurate having 1NO+1NC(Single pole) and 2NO+2NC(Double pole) change over contacts to facilitate selection and application for your specific needs.

SALIENT FEATURES

- Movable contact assembly with two coiled springs provides quick make and quick break action.
- Absence of zero contact pressure ensures non-teasing action even with an extremely slow operation motion.
- Light weight phosphor bronze contact carrier with silver contacts, assure long life on high load applications.
- Silver contacts, definite wiping action and high contact pressure assure reliability on dry circuit applications.
- Phenolic moulded case provides great physical strength, high arc resisting capacity and semi dust proofing.
- High degree of versatility as wide variety of operating heads are available with individual mounting.

Push Button Plunger

The oil tight constructed plunger mechanism prevents any ingress of oil including coolant. The position of switch mounting is adjustable with the two lock nuts provided.

Roller Plunger

The oil tight constructed roller plunger either inline with the contact block or right angles to it, allows the cam or any other device to operate in any of the four directions.

Roller Lever

Roller Lever with a steel roller mounted on either top and right hand side or top and left hand side provides operation in both sides.

Six Inch Lever

Operators provide either top and right hand mounting or top and left hand mounting. The Lever may be cut or bent to any desired length or shape to satisfy the user requirements.

KC 1500 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 1500-1A	Only Contact Block without Operator Dust Proof	Snap Action	1NO+1NC		
KC 1500-2A		Snap Action	2NO+2NC		
KC 1501-1A	Top Push Button Operator IP 65 from the Top	Snap Action	1NO+1NC		
KC 1501-2A		Snap	2NO+2NC		

TECHNICAL DATA AS PER STANDARD - IEC 60947 - 5-1 of 1997

Technical Data	900 Series Limit Switches																															
Design	4 Types of Operating Heads																															
Contact Combination	1NO+2NC, 2NO+1NC																															
Mechanism	Normal Action or Overlapping																															
Current & Voltage Rating	10A, 500V AC																															
Thermal Current (Ith)	10A																															
Permissible Ambient Temperature	-40° C to 85° C																															
Frequency of Operation	6000 Cycles per hour																															
Mechanical Life	15 Million Operations																															
Contact Life AC	<table border="1"> <thead> <tr> <th>Breaking Current Amps.</th> <th>1</th> <th>3</th> <th>6</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>Switching Cycles in Million</td> <td>15</td> <td>5</td> <td>25</td> <td>1</td> </tr> </tbody> </table>					Breaking Current Amps.	1	3	6	10	Switching Cycles in Million	15	5	25	1																	
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Making & Breaking Capacity	AC 15 duty, Ie at 40-60 Hz, P.F. of 0.3 (lag)																															
	<table border="1"> <thead> <tr> <th>Operating Voltage V</th> <th>Rated Operating Current (Ie) Amps Normal Action</th> <th>Rated Making Capacity (Amp) Normal Action</th> <th>Rated Breaking Capacity (Amp) Normal Action</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>6</td> <td>90</td> <td>60</td> </tr> <tr> <td>120</td> <td>6</td> <td>90</td> <td>60</td> </tr> <tr> <td>240</td> <td>6</td> <td>90</td> <td>60</td> </tr> <tr> <td>380</td> <td>6</td> <td>90</td> <td>60</td> </tr> <tr> <td>480</td> <td>4</td> <td>90</td> <td>60</td> </tr> <tr> <td>500</td> <td>4</td> <td>90</td> <td>60</td> </tr> </tbody> </table>	Operating Voltage V	Rated Operating Current (Ie) Amps Normal Action	Rated Making Capacity (Amp) Normal Action	Rated Breaking Capacity (Amp) Normal Action	24	6	90	60	120	6	90	60	240	6	90	60	380	6	90	60	480	4	90	60	500	4	90	60			
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380	6	90	60																													
480	4	90	60																													
500	4	90	60																													
Cable Entry	½" BSP & M20 x 1.5																															
Terminal Capacity	2.5 sqmm Solid / Stranded Conductors																															
Protection	IP XX with Open Contacts IP 4X with Protective Cover IP 43 with Aluminum Enclosure																															
Operating Force	750 Grams to 1000 Grams																															
Housing	Aluminum Die Casting																															
Application	Injection Moulding Machines, hoists & Cranes. Machine Tools, Textile Machines and Conveyers.																															

KC 600 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 605L	In Diecast Aluminium Housing, with 76 mm Rotating Roller Lever Actuator IP 65	Snap Action 1NO+1NC			
KC 605A	In Diecast Aluminium Housing, with Adjustable 32mm-82.5mm Rotating Roller Lever Actuator IP 65	Snap Action 1NO+1NC			
KC 606	In Diecast Aluminium Housing, with Spring Stem (Needle) Actuator IP 65	Snap Action 1NO+1NC			
KC 606N		Normal Action 1NO+1NC			
KC 607	In Diecast Aluminium Housing, with Angular Roller Lever Actuator IP 65	Snap Action 1NO+1NC			
KC 607N		Normal Action 1NO+1NC			
KC 607NE		Extended Stroke 1NO+1NC			
KC 607NOL		Over Lapping 1NO+1NC			

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 608	In Diecast Aluminium Housing, with Longer Roller Lever Actuator	Snap Action			
KC 608N		Normal Action			
KC 608NE		Extended Stroke			
KC 608NOL		Over Lapping			
KC 609	In Diecast Aluminium Housing, with Short Roller Lever Actuator	Snap Action			
KC 609N		Normal Action			
KC 609NE		Extended Stroke			
KC 609NOL		Over Lapping			

Technical Data As Per IEC 60947 - 5 - 1 of 1997

Technical Data		KC 600 Series Limit Switches																																																											
Design	13 Types of Operating Heads																																																												
Contact Combination	1NO+1NC, Single Pole, Double Throw, Double Break																																																												
Mechanism	Snap Action or Normal Action or Extended Stroke or Overlapping																																																												
Current & Voltage Rating	10A, 500V AC or 10A, 600V AC																																																												
Utilization Category	AC15 and DC 13																																																												
Permissible Ambient Temperature	-40 Degree C to +85 Degree C																																																												
Mechanical Life	15 Million switching cycles																																																												
Contact Life A.C.	<table border="1"> <thead> <tr> <th>Breaking Current(Amps)</th> <th>1</th> <th>3</th> <th>6</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>Switching Normal Cycles in Million</td> <td>15</td> <td>5</td> <td>2.5</td> <td>1</td> </tr> <tr> <td>Shap Action</td> <td>11</td> <td>4</td> <td>1.8</td> <td>0.7</td> </tr> </tbody> </table>					Breaking Current(Amps)	1	3	6	10	Switching Normal Cycles in Million	15	5	2.5	1	Shap Action	11	4	1.8	0.7																																									
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Switching Normal Cycles in Million	15	5	2.5	1																																																									
Shap Action	11	4	1.8	0.7																																																									
Frequency of Operation	6000 Cycles / Hour																																																												
Making & Breaking Capacity	AC 15 Duty, ie at 40-60Hz, P.F. of 0.3 (Lag) to 1.																																																												
	<table border="1"> <thead> <tr> <th rowspan="2">Voltage (in V AC)</th> <th colspan="2">Rated Operating Current (in Amps)</th> <th colspan="2">Rated Making Capacity (in Amps)</th> <th colspan="2">Rated Breaking Capacity (in Amps)</th> </tr> <tr> <th>NA</th> <th>SA</th> <th>NA</th> <th>SA</th> <th>NA</th> <th>SA</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>6</td> <td>3</td> <td>90</td> <td>30</td> <td>60</td> <td>30</td> </tr> <tr> <td>120</td> <td>6</td> <td>3</td> <td>90</td> <td>30</td> <td>60</td> <td>30</td> </tr> <tr> <td>240</td> <td>6</td> <td>3</td> <td>90</td> <td>30</td> <td>60</td> <td>30</td> </tr> <tr> <td>380</td> <td>6</td> <td>3</td> <td>90</td> <td>30</td> <td>60</td> <td>30</td> </tr> <tr> <td>480</td> <td>4</td> <td>3</td> <td>90</td> <td>30</td> <td>60</td> <td>30</td> </tr> <tr> <td>500</td> <td>4</td> <td>3</td> <td>90</td> <td>30</td> <td>60</td> <td>30</td> </tr> </tbody> </table>	Voltage (in V AC)	Rated Operating Current (in Amps)		Rated Making Capacity (in Amps)		Rated Breaking Capacity (in Amps)		NA	SA	NA	SA	NA	SA	24	6	3	90	30	60	30	120	6	3	90	30	60	30	240	6	3	90	30	60	30	380	6	3	90	30	60	30	480	4	3	90	30	60	30	500	4	3	90	30	60	30	NA= Normal Action SA=Snap Action				
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500	4	3	90	30	60	30																																																							
Cable Entry	M20 x 1.5 - 3 Nos.																																																												
Terminal Capacity	2.5 sqmm Solid or Stranded Conductors																																																												
Protection	IPXX with Open Execution, IP4X with Protective Plastic Cover IP 43 with Aluminium Enclosure, IP 65 Aluminium Enclosure incorporating Seals																																																												
Operating Housing	600 Grams to 1200 Grams Aluminium Pressure Die Casting																																																												
Application	Injection Moulding Machines, Hoists & Cranes Machine Tools, Textile Machine and SPMs																																																												

KC 900 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 901N-3A	Complete in Diecast Aluminium Housing, with Normal Roller Lever Actuator IP 43	Normal Action			
KC 901N-3AOL		Over Lapping			
KC 902N-3A		Normal Action			
KC 902N-3AOL		Over Lapping			
KC 901N-7A	Complete in Diecast Aluminium Housing with Angular Roller Lever Actuator IP43	Normal Action			
KC 901N-7AOL		Over Lapping			
KC 902N-7A		Normal Action			
KC 902N-7AOL		Over Lapping			
KC 901N-10A	Complete in Diecast Aluminium Housing, with Horizontal Roller Actuator (Heavy Duty)	Normal Action			
KC 901N-10AOL		Over Lapping			
KC 902N-10A		Normal Action			
KC 902N-10AOL		Over Lapping			

LIMIT SWITCHES - 900 SERIES

FEATURES

KC 900 Series limit switches are designed to having 34mm width, Aluminium Pressure die cast enclosures for heavy duty purpose.

KC 900 Series Limit switches are available with Two type of contact element i.e. 1NO + 2NC and 2NO + 1NC, each with 3 sets of contacts.

KC 900 Series Limit Switches Enclosure and actuator assembly are interchangeable for Models KC 901N-1A, KC 901N-3A and KC 901N-7A. Only the horizontal roller actuators of very heavy duty Model KC 901N-10A KC 902N-N10A, are not interchangeable.

The Operating Heads of KC 900 Series Limit Switches are Normal Roller Lever, Angular Roller Lever and Heavy duty Horizontal Roller.

The **KC 900 Series** Limit Switches offers a variety of Degree of Protection from IPXX to IP65.

The Application area coverage of 900 Series Limit switches are Injection Moulding Machines, Machine Tools and SPMs.

KC 900 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 901N	Only Push Rod Operated, No Aluminium Housing IPXX	Normal Action	1NO+2NC		
KC 901NOL		Over Lapping	1NO+2NC		
KC 902N	Rod Operated, No Aluminium Housing IPXX	Normal Action	2NO+1NC		
KC 902NOL		Over Lapping	2NO+1NC		
KC 901N-1A	Complete in Diecast Aluminium Housing, Push Rod Operated IP 43	Normal Action	1NO+2NC		
KC 901N-1AOL		Over Lapping	1NO+2NC		
KC 902N-1A		Normal Action	2NO+1NC		
KC 902N-1AOL		Over Lapping	2NO+1NC		

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LIMIT SWITCHES - 700 SERIES

FEATURES

KC 700 Series limit switches with "Set Back" head design and with Shorter, Stronger mounting screws, provide greater structural rigidity between the operating head and the switch. The Aluminium pressure die cast enclosure adds to the strength and this range is able to handle higher operating force.

KC 700 Series Limit Switches are completely oil tight, water tight and dust proof, with a shaft seal between the lever and the head, internal seal between the head and the enclosure and an external seal between the cover and the body.

The Contact structure has solid thermoplastic barriers between terminals to prevent short circuiting. Terminals have ample wiring space for easier wiring and are serrated to give a firm grip to the straight wire. The complete unit can be removed and replaced without the risk of changing the operating characteristics of the limit switches.

KC 700 Series Limit Switches are available with a variety of operating heads to meet various applications. Rotary Lever and Fork lever operating heads may be used on maintained type contacts.

The Application area coverage of 700 Series Limit switches are Injection Moulding Machines, Hoists & Cranes. Machine Tools, Textile Machines and Conveyors.

KC 700 SERIES LIMIT SWITCHES

KC Code	Design	Contact Details	Wiring Diagram	Travel (mm & Degree)	Execution
KC 701	Top Plunger (Push Button) Adjustable Spring Return	Snap Action	1NO+1NC		
KC 702	Top Push Roller Spring Return	Snap Action	1NO+1NC		
KC 703	Side Plunger (Push Button) Adjustable Spring Return	Snap Action	1NO+1NC		

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